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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/008,948	12/06/2001	Franklin Zhigang Zhang		4817	
7590 10/06/2005 EXA		INER			
Franklin Zhigang Zhang 4717 Spencer Street		SHARMA, S	SHARMA, SUJATHA R		
Torrance, CA 90503			ART UNIT	PAPER NUMBER	
			2684	2684	

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/008,948	ZHANG, FRANKLIN ZHIGANG					
Office Action Summary	Examiner	Art Unit					
	Sujatha Sharma	2684					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence add	dress				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on <u>08 A</u>	uaust 2005.						
· · · · · · · · · · · · · · · · · · ·	action is non-final.						
3) Since this application is in condition for allowa		secution as to the	merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 6-10 is/are pending in the application							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>6-10</u> is/are rejected.							
7) Claim(s) is/are objected to.	•						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers	. o conon roquironionii	•					
	_						
9) The specification is objected to by the Examine		-					
10) The drawing(s) filed on is/are: a) acc							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 							
•		on No	•				
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
		u .					
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Page 6) Other:	atent Application (PTO	-152)				

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Specification

1. Claims 6,7 are objected to because of the following informalities:

In claim 6, line 20, "function means communicating" should read as – function means is communicating--.

In claim 7, line 2, "extend" should read as – extending--.

In claim 7, lines 3, "connection" should read as – connects--.

In claim 7, line 4, "connecting" should read as – connects--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 9,10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims recite "a point to multi point multi-channel partial redundant wireless networking link (RWNL) comprising one multi-channel RWNL device as master node and a plurality of multi-channel RWNL devices as client nodes and further one group of wireless networking units of said master RWNL communicating with corresponding wireless networking units of multiple said client RWNL devices forming a wireless point-to-multiple-point sub-link group".

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The limitation underlined above is not disclosed in the specification and hence considered to be new matter.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 6-8 are rejected under 35 U.S.C. 102(b) as being unpatentable by Mahany [US 5,546,397].

Regarding claim 6, Mahany discloses a redundant wireless network link. Mahany further discloses a redundant wireless link (RWNL) comprising:

- a system function means; see fig. 3, col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col.
 5, line 47 col. 6, line 37
- a plurality of wireless networking units; see fig. 3, access points 35,36
- a plurality of wired networking units; see fig. 3; LAN connection to the host computer
- at least one system bus; see fig. 3, connection between the CPU processor 37 and the radios 38 or 39
- whereby the said units are interconnected with each other via the said system bus, and whereby all the units are inside on enclosure with necessary connectors for connecting to the outside of the said enclosure. See fig. 3

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- wherein the system function means is the digital possessing function running primary in the processor unit and among all the other units. See fig. 3, CPU processor 37 and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 – col. 6, line 37

- Wherein said wireless networking unit can communicate with remote wireless networking device forming a wireless networking sub-link via antenna means; See fig. 3, and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 col. 6, line 37
- Wherein said system function means is running to control networking communication packets to be redistributed among all the wireless networking units for aggregating the networking bandwidth and providing redundancy among the wireless units; See fig. 3, and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 col. 6, line 37
- Wherein the said system function means is communicating between the said wireless and wired networking units in the same said RWNL device; See fig. 3, and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 col. 6, line 37
- Wherein the said system function mean is running to control networking packets to be redistributed among all the remaining communicating wireless networking sub-links and keep communication between the RWNL device and remote RWNL device when there is/wireless networking sub-link that failed of communicating with remote networking device. See fig. 3, and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 col. 6, line 37

Regarding claim 7, Mahany further discloses a method wherein the said RWNL device may include a control unit (MAC processor and/or CPU processor) for extending the system control

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to wireless networking units whereby said control unit connects to system bus, whereby said control unit connects to said wireless networking units and whereby said processor unit can extend the controlling capability via the control unit. See fig. 3, and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 – col. 6, line 37

Regarding claim 8, Mahany further discloses a redundant wireless link (RWNL) comprising:

- two multi-channel redundant wireless networking link (RWNL) devices. See fig. 3 and col. 5, line 47 col. 6, line 37
- whereby one said RWNL device is connecting to one wired network via its wired networking unit. See fig. 3; access point 35 connected to wired LAN
- Whereby the second RWNL device is connecting to another wired network via its wired networking unit; see fig. 3, access point 36 connected to wired LAN
- Whereby said two RWNL devices communicating to each other wirelessly; see link 30 in
 Fig. 3
- wherein one of the wireless networking units of the one said RWNL device
 communicating with remote corresponding wireless networking unit of the another said
 RWNL device form a wireless sub-link; see fig. 3
- bandwidth of the all the sub-links forming a virtual bigger networking link between two said RWNL devices; See fig. 3, and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 col. 6, line 37

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- wherein the said system function means of said two RWNL devices coordinating each other when one of the wireless sub-links is having problem and to disable the said problem wireless sub-link; See fig. 3, and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 – col. 6, line 37

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- wherein further the said system function means continuing to redistribute the networking traffic among the remaining sub-links forming a new virtual communication link; See fig. 3, and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 col. 6, line 37
- Whereby two said wired networks connecting to each other via said virtual communication link redundantly; See fig. 3, and col.1, lines 43-col. 2, line 52, col. 3, lines 18-67, col. 5, line 47 col. 6, line 37

Conclusion

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mahany [US 6,665,536] Local area network having multiple channel wireless access

Carter [US 6,659,947] Wireless LAN architecture for integrated time-critical and non-

time- critical services within medical facilities

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 571-272-7886. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sujatha Sharma September 22, 2005

EDAN ORGAD PATENT EXAMINER/TELECOMM.